### PATENT COOPERATION TREATY

# INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference FP-1299PCT	FOR FURTHER ACTION	See item 4 below
International application No. PCT/JP2004/019245	International filing date (day/month/year) 22 December 2004 (22.12.2004)	Priority date (day/month/year) 26 December 2003 (26.12.2003)
International Patent Classification (8th See relevant information in Form F	n edition unless older edition indicated) PCT/ISA/237	
Applicant TOKYO GAS CO., LTD.		

1.	This international preliminary re International Searching Authorit	port on patentability (Chapter y under Rule 44 bis.1(a).	I) is issued by the International Bureau on behalf of the			
2.	This REPORT consists of a total	otal of 5 sheets, including this cover sheet.				
	In the attached sheets, any refere to the international preliminary r	nce to the written opinion of eport on patentability (Chapte	the International Searching Authority should be read as a reference er I) instead.			
3.	3. This report contains indications relating to the following items:					
	Box No. I	Basis of the report				
	Box No. II	Priority	·			
	Box No. III	Non-establishment of opin applicability	ion with regard to novelty, inventive step and industrial			
	Box No. IV	Lack of unity of invention				
	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
	Box No. VI	Certain documents cited				
	Box No. VII	No. VII Certain defects in the international application				
	Box No. VIII	Certain observations on the	e international application			
4.	The International Bureau will co not, except where the applicant n date (Rule 44bis .2).	mmunicate this report to desi nakes an express request unde	gnated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but er Article 23(2), before the expiration of 30 months from the priority			
			Date of issuance of this report 22 August 2006 (22.08.2006)			
	The International Burea		Authorized officer			
	34, chemin des Colo 1211 Geneva 20, Sw		Yoshiko Kuwahara			
Facsimile No. +41 22 338 82 70			e-mail: pt07@wipo.int			

Form PCT/IB/373 (January 2004)

#### PATENT COOPERATION TREATY

TRANSLATION From the INTERNATIONAL SEARCHING AUTHORITY To: WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (PCT Rule 43bis.1) Date of mailing (day/month/year) Applicant's or agent's file reference FOR FURTHER ACTION See paragraph 2 below FP-1299PCT Priority date (day/month/year) International filing date (day/month/year) International application No. 22.12.2004 26.12.2003 PCT/JP2004/019245 International Patent Classification (IPC) or both national classification and IPC Applicant TOKYO GAS CO., LTD. This opinion contains indications relating to the following items: Basis of the opinion Box No. I Box No. II Priority Non-establishment of opinion with regard to novelty, inventive step and industrial applicability Box No. III Box No. IV Lack of unity of invention Reasoned statement under Rule 43bis. 1(a)(i) with regard to novelty, inventive step or industrial Box No. V applicability; citations and explanations supporting such statement Box No. VI Certain documents cited Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application **FURTHER ACTION** If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. Authorized officer Name and mailing address of the ISA/JP Telephone No. Facsimile No.

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/019245

Box	No. I	Basis of this opinion						
1.		egard to the language, this opinion has unless otherwise indicated under this iter		basis of the inter	rnational applicati	on in the langua	ge in which it wa	as
		This opinion has been established on the	basis of a translation fi					Т
,	_	Rule 12.3 and 23.1(b)).	men is the ranguage of	a translation rain	ission for the purp	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(	-
2.	With	regard to any nucleotide and/or amin ion, this opinion has been established on	o acid sequence disc	losed in the inter	rnational applicati	on and necessar	y to the claime	:d
		type of material	inc basis or.			•		
	ſ	a sequence listing						
	[	table(s) related to the sequence list	ing .					
	b.	format of material						
		in written format						
	Ī	in computer readable form						
	c. 1	time of filing/furnishing						
	ſ	contained in the international appli	cation as filed.					
	Ī	filed together with the internationa	l application in compu	er readable form.				
	<u>.</u>	furnished subsequently to this Autl						
		_						
3.	_	In addition, in the case that more than furnished, the required statements that the filed or does not go beyond the application	ne information in the s	ubsequent or addi	tional copies is ide	relating thereto entical to that in	has been filed on the application a	лas
4.	Additi	onal comments:						
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## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/019245

Bo	k No. I	V Lack of unity of invention
1.		In response to the invitation (Form PCT/ISA/206) to pay additional fees the applicant has:  paid additional fees  paid additional fees under protest
		not paid additional fees
2.	$\boxtimes$	This Authority found that the requirement of unity of invention is not complied with and chose not to invite the applicant to pay additional fees.
3.	This	Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3 is
		complied with
	$\boxtimes$	not complied with for the following reasons:
		The inventions of claims 1-13 relate to a device for determining the kind of a liquid in a container, comprising a heat source disposed outside of the container, and a temperature censor for converting temperature of a container exterior wall into a voltage or current. The inventions of claims 14-34 relate to a device for determining the kind of a liquid in a container, comprising a bendable film that is in contact with the container, a temperature censor provided on the film, and a heat source provided on the film.
•	•	
4.	Con	sequently, this opinion has been established in respect of the following parts of the international application:
	$\boxtimes$	all parts
		the parts relating to claims Nos.

### WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No.
PCT/JP2004/019245

Statement			
Novelty (N)	Claims _	1-34	Y
	Claims _		
Inventive step (IS)	Claims	1-34	Y
	Claims _		· · · ›
Industrial applicability (IA)	Claims _	1-34	Y
,	Claims		r

2. Citations and explanations:

#### Claims 1-34

Document 1: JP 10-325815 A (Toyota Motor Corporation), 08 December 1998, full text, all drawings

Document 2: JP 2000-186815 A (K.K. Noritsu), 04 July 2000, full text, all drawings Document 3: JP 2002-214020 A (Erumekku Denshi K.K.), 31 July 2002, full text, all drawings

Document 4: JP 2002-277416 A (Sumitomo Chemical Company, Limited), 25 September 2002, full text, all drawings

Document 5: JP 2002-543385 A

(Lattice Intellectual Property Limited), 17 December 2002, full text, all drawings Document 6: JP 11-51953 A (Tokyo Gas Co., Ltd.), 26 February 1999, full text, all drawings

Documents 1-6 indicate the general state of the art relating to a device for determining the kind of a liquid in a container; however a device for determining the kind of a liquid in a container comprising a heat source disposed outside of the container, and a temperature censor for converting temperature of a container exterior wall into a voltage or current, and a device for determining the kind of a liquid in a container comprising a bendable film that is in contact with the container, a temperature censor provided on the film, and a heat source provided on the film are neither described nor suggested in any of the documents listed in the ISR.